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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

p49/STRAP siRNA (m): sc-151964

BACKGROUND

p49/STRAP, also known as SRFBP1 (serum response factor binding protein 1), p49, Rib1, BUD22 or STRAP, is a 429 amino acid protein that localizes to the perinuclear region of the cytoplasm and is expressed abundantly in heart and skeletal muscle. Interacting with SRF (serum response factor), p49/STRAP is thought to be involved in the biosynthesis and processing of adipose cells and may also regulate the transcriptional activation of cardiac genes during the aging process. The gene encoding p49/STRAP maps to human chromosome 5, which contains 181 million base pairs and comprises nearly 6% of the human genome. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm or of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

1. Miano, J.M. 2003. Serum response factor: toggling between disparate programs of gene expression. *J. Mol. Cell. Cardiol.* 35: 577-593.
2. Zhang, X., Azhar, G., Zhong, Y. and Wei, J.Y. 2004. Identification of a novel serum response factor cofactor in cardiac gene regulation. *J. Biol. Chem.* 279: 55626-55632.
3. Lisinski, I., Matsumoto, H., Yver, D.R., Schürmann, A., Cushman, S.W. and Al-Hasani, H. 2006. Identification and characterization of p49/STRAP as a novel Glut4-binding protein. *Biochem. Biophys. Res. Commun.* 344: 1179-1185.
4. Rensen, S.S., Niessen, P.M., Long, X., Doevendans, P.A., Miano, J.M. and van Eys, G.J. 2006. Contribution of serum response factor and myocardin to transcriptional regulation of smoothelins. *Cardiovasc. Res.* 70: 136-145.
5. Online Mendelian Inheritance in Man, OMIM[™]. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 610479. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
6. Zhang, X., Azhar, G., Helms, S., Zhong, Y. and Wei, J.Y. 2008. Identification of a subunit of NADH-dehydrogenase as a p49/STRAP-binding protein. *BMC Cell Biol.* 9: 8.

CHROMOSOMAL LOCATION

Genetic locus: Srfbp1 (mouse) mapping to 18 D1.

PRODUCT

p49/STRAP siRNA (m) is a target-specific 19-25 nt siRNA designed to knock down gene expression. Each vial contains 3.3 nmol of lyophilized siRNA, sufficient for a 10 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see p49/STRAP shRNA Plasmid (m): sc-151964-SH and p49/STRAP shRNA (m) Lentiviral Particles: sc-151964-V as alternate gene silencing products.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20° C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20° C, avoid contact with RNases and repeated freeze thaw cycles.

Resuspend lyophilized siRNA duplex in 330 μ l of the RNase-free water provided. Resuspension of the siRNA duplex in 330 μ l of RNase-free water makes a 10 μ M solution in a 10 μ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

p49/STRAP siRNA (m) is recommended for the inhibition of p49/STRAP expression in mouse cells.

SUPPORT REAGENTS

For optimal siRNA transfection efficiency, Santa Cruz Biotechnology's siRNA Transfection Reagent: sc-29528 (0.3 ml), siRNA Transfection Medium: sc-36868 (20 ml) and siRNA Dilution Buffer: sc-29527 (1.5 ml) are recommended. Control siRNAs or Fluorescein Conjugated Control siRNAs are available as 10 μ M in 66 μ l. Each contain a scrambled sequence that will not lead to the specific degradation of any known cellular mRNA. Fluorescein Conjugated Control siRNAs include: sc-36869, sc-44239, sc-44240 and sc-44241. Control siRNAs include: sc-37007, sc-44230, sc-44231, sc-44232, sc-44233, sc-44234, sc-44235, sc-44236, sc-44237 and sc-44238.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor p49/STRAP gene expression knockdown using RT-PCR Primer: p49/STRAP (m)-PR: sc-151964-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

RESEARCH USE

For research use only, not for use in diagnostic procedures.